

Message Text

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INFO AMEMBASSY ANKARA

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EO 11652: N/A

TAGS: CCMS, ENRG

SUBJ: CCMS: SOLAR ENERGY PILOT STUDY MEETING:, COPENHAGEN SEPTEMBER 13-15, 1976.

SUMMARY: THREE-DAY CCMS SOLAR MEETING HIGHLIGHTED BY A) PRESENTATIONS ON NATIONAL SOLAR PROGRAMS UPDATING SIGNIFICANT INCREASE IN NEARLY ALL PROGRAMS; B) FORMATION OF NEW SUB-GROUP ON MEDITERRANEAN-CLIMATE APPLICATIONS; C) ADOPTION OF CCMS SPECIAL FORMAT FOR UPDATING SOLAR SYSTEM/SUB-SYSTEM PERFORMANCE BY INCREASING NUMBER OF COUNTRIES; D) INCREASED PARTICIPATION IN SOLAR MEMORANDUM OF UNDERSTANDING. NEXT CCMS SOLAR MEETING TO BE HOSTED BY FRG IN SPRING 1978.

1. REPRESENTATIVES FROM 19 COUNTRIES, COMMISSION OF EUROPEAN COMMUNITY AND NATO INTERNATIONAL STAFF PARTICIPATED IN THIRD ANNUAL NATO/CCMS SOLAR ENERGY PILOT STUDY MEETING AT TECHNICAL UNIVERSITY OF DENMARK, SEPTEMBER 13-15. COUNTRIES REPRESENTED INCLUDED AUSTRALIA, BELGIUM, CANADA, DENMARK, FRG, FRANCE, GREECE, ISRAEL, LUXEMBOURG, THE NETHERLANDS, SAUDI ARABIA, SPAIN, SWEDEN, TURKEY, U.S. PARTICIPATING THE FIRST TIME IN SOLAR ENERGY PILOT STUDY WERE REPRESENTATIVES FROM HAITI, IRAN, MEXICO, MONACO AND EC.

2. NATIONAL SOLAR PROGRAMS: MAJOR PART OF MEETING DEVOTED TO GENERAL REVIEW OF NATIONAL PROGRAMS IN AREA OF SOLAR HEATING AND COOLING OF BUILDINGS. CAPSULE SUMMARIES OF NATIONAL PRESENTATIONS FOLLOW:

A) AUSTRALIA: MANUFACTURE OF SOLAR WATER HEATERS CONTINUES TO BE DIRECTED AT APPLICATIONS SUITABLE FOR HOT WATER SERVICES IN INDIVIDUAL HOMES AND HOTELS. THERE IS SOME EXPORT OF COLLECTORS AND TECHNOLOGY, AND GROWING INTEREST IN SWIMMING POOL HEATING. R AND D AT MODEST LEVEL UNDERTAKEN IN CSIRO AND SOME UNIVERSITIES WITH EMPHASIS ON INDUSTRIAL PROCESS HEATING APPLICATIONS TO CONSERVE OIL. DEMONSTRATION INSTALLATIONS IN FOOD PROCESSING INDUSTRY BEING PLANNED.

B) BELGIUM: RESEARCH ON SOLAR HEATING AND COOLING OF BUILDINGS AND SOLAR WATER HEATING STARTED AT END OF 1975. TWO UNIVERSITIES UNCLASSIFIED

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ARE INVOLVED: ONE STUDYING WATER COLLECTORS, OTHER AIR COLLECTORS. EMPHASIS IS ON: (1) RATIONAL USE OF SOLAR RADIATION DATA IN ORDER TO PREDICT THERMAL PERFORMANCES OF SOLAR COLLECTORS. (A TEST REFERENCE YEAR ((TRY)) IS BEING STUDIED.) (2) FORMULATION OF STIMULATION PROGRAMS, TESTED BY COMPARISON WITH OUTDOOR MEASUREMENTS. (3) STUDY OF DIFFERENT COMPONENTS OF COLLECTORS. ALSO, SOLAR HOUSE WITH INTEGRATED COLLECTORS IN ROOF STRUCTURE BEING STUDIED.

C) CANADA: \$700,000 OF NEW FUNDS BEING USED TO IMPROVE SOLAR DATA BASE; TO AID CONSTRUCTION OF 14 SINGLE-FAMILY SOLAR DEMONSTRATION HOUSES; AND TO FUND 4-5 R AND D PROJECTS ON FIRST GENERATION SOLAR SPACE-HEATING HARDWARE AND SYSTEMS. FEASIBILITY STUDY ON SOLAR SPACE-HEATING CONTINUING. INTENSIVE MONITORING TO COMMENCE ON 2 SOLAR HOUSES CONSTRUCTED IN 1976; PLANS FOR INTENSIVE MONITORING OF 2 ADDITIONAL SOLAR HOUSES PLUS MULTI-UNIT RESIDENTIAL BUILDING.

D) DENMARK: GOVERNMENT PROJECT RELATED TO SOLAR HEATING OF ENERGY CONSUMING BUILDINGS UNDERWAY SINCE AUGUST 1973. ZERO ENERGY EXPERIMENTAL HOUSE IN OPERATION SINCE SPRING 1975. RELATED PROJECTS INCLUDE: INSULATION ANALYSIS, SYSTEM MODELING, AIR-COLLECTOR DESIGNS, PHASE-CHANGE ENERGY STORAGE. GOVERNMENT-SUPPORTED SOLAR ENERGY INFORMATION CENTER RECENTLY ESTABLISHED. PRIVATELY FUNDED SOLAR HEATED OFFICE BUILDING WITH SEASONAL STORAGE UNDER CONSTRUCTION.

E) FRG: BY AUGUST 1976 INDUSTRY-BASED AND GOVERNMENT COST SHARING SOLAR ENERGY PROGRAM EXPANDED TO 24 PROJECTS - 17 RELATED TO HOT WATER SUPPLY AND HEATING OF BUILDINGS. PROJECTS INCLUDE: 4 SOLAR HEATED HOMES; LARGE SOLAR HEATED INTERIOR SWIMMING POOL; DEVELOPMENT OF LOW-COST DURABLE SELECTIVE SURFACES AND SYSTEM STUDIES. ONE LARGE AND SEVERAL SMALL FIRMS ARE MARKETING HOT WATER AND HEATING SYSTEMS.

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F) FRANCE: SOLAR HEATING AND COOLING SYSTEMS BEING DEVELOPED ON THREE LEVELS. (1) CNRS PROGRAM AIMING AT SUPPORTING FUNDAMENTAL RESEARCH FOR PRACTICAL DEVELOPMENT OF SOLAR SYSTEMS, MAINLY: BIOCLIMATIC STUDY OF COMFORT; SYSTEMS ANALYSIS OF HABITAT; STUDIES OF COMPONENTS. CNRS ALSO CONDUCTED EXPERIMENTS ON HOUSES WITH SOUTH-WALL COLLECTORS AND AIR CIRCULATION. (2) PROGRAM CONSTRUCTED BY "PLAN CONSTRUCTION" (MINISTERE DE L'EQUIPEMENT) AND INDEPENDENT ORGANIZATIONS ON LONG-RANGE AND EFFICIENT USE OF SOLAR RADIATION FOR HOUSES IN TEMPERATE CLIMATES. MAIN AREAS: TESTING STATIONS IN NATURAL OR ARTIFICIAL CLIMATES; HIGH TEMPERATURE COLLECTORS; STORAGE; SIMULATION; ARCHITECTURAL RESEARCH. (3) PROGRAM OF EXPERIMENTATION AND DEMONSTRATION HELD BY "DELEGATION AUX ENERGIES NOUVELLES" (MINISTERE DE L'INDUSTRIE) AND PLAN-CONSTRUCTION. FIRST COMPLETED OPERATION: CNRS-ODEILLO (SECOND PHASE); EDF-LE HAVRE AND ARAMON (12 INDIVIDUAL HOUSES); ECOLE DE MONES D'ALES (STUDENT HOUSES); CHATEAU-ARNOUX (SWIMMING POOL AND LOW-ENERGY HOUSES BY M. MISSENARD).

G) GREECE: REFLECTING HORIZONTAL SOLAR COLLECTOR HAS BEEN DEVELOPED AND EVALUATED. PORTION OF ADMINISTRATION BUILDING

OF NUCLEAR RESEARCH CENTER DEMOCRITOS WILL BE TRANSFORMED TO SOLAR HEATING IN WINTER 1976-77.

H) IRAN: IN JUNE 1976 UTILIZATION OF SOLAR ENERGY OFFICIALLY CONSIDERED AS PART OF NATIONAL ENERGY PROGRAM. COUNCIL FOR PLANNING AND COORDINATION OF SOLAR ENERGY R AND D ESTABLISHED. GOVERNMENT SOLAR BUDGET OF OVER \$2 MILLION TO BE USED ON PROJECTS AND HEATING AND COLLING BUILDINGS; INDUSTRIAL PROCESS STEAM; TOTAL ENERGY SYSTEM FOR TYPICAL VILLAGE.

I) ISRAEL: GOVERNMENT SUPPORTING INDUSTRY AND INSTITUTIONS IN AREAS OF SOLAR COLLECTOR DEVELOPMENT, SYSTEMS FOR LARGER INSTALLATIONS, MATERIALS TECHNOLOGY, AND ALGAE GROWTH. TWO LARGE PROJECTS APPROVED: ONE IN INDUSTRY FOR DEVELOPMENT OF HEATING AND COLLING SYSTEMS INCLUDING HARDWARE (3-5 YEAR PROGRAM); ONE ON SOLAR PONDS AS SOURCE OF LOW-TEMPERATURE HEAT IN LARGE QUANTITIES.

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J) LUXEMBOURG: SOLAR ENERGY PROGRAM BEING CONSIDERED. INTEREST SHOWN IN DOMESTIC HOT WATER AND, FOR LONG TERM, IN HEAT PUMP SOLAR ASSISTED CENTRAL HEATING.

K) MONACO (FLEXTUBE S.A.): AIMING AT DEVELOPING SOLAR SYSTEMS TO REPLACE OR SUPPLEMENT OTHER FORMS OF ENERGY FOR DWELLINGS: OFFICES, HOSPITALS AND SWIMMING POOLS. PROJECTS INCLUDE: 3 TYPES OF FLAT-PLATE COLLECTORS; 2 TYPES OF CONCENTRATING COLLECTORS ARE UNDER DEVELOPMENT; 2 GREENHOUSE HEATING PROJECTS USING PARABOLIC REFLECTORS AND FLAT PLATE COLLECTORS; 1 PROJECT ON ANTI-FREEZE AND CORROSION RESISTANCE.

L) THE NETHERLANDS: GOVERNMENT EMPHASIS ON DEVELOPMENT AND DEMONSTRATION OF SOLAR HEATING AND COOLING SYSTEMS. PROJECTS AT UNIVERSITIES AND RESEARCH INSTITUTES INCLUDE WORK ON THREE ENERGY-CONSERVING SOLAR-HEATED LOW INCOME HOUSING UNITS: SOLAR-HEATED HOME; SOLAR-HEATED LABORATORY; SOLAR-HEATING SYSTEM OPTIMIZATION STUDIES; SOLAR-COOLING; ADVANCED COLLECTORS AND COLLECTION OF SOLAR RADIATION DATA.

M) SAUDI ARABIA: TWO UNIVERSITIES ACTIVE IN DATA COLLECTION AND EVALUATION OF SOLAR ENERGY SYSTEMS. SOLAR ENERGY DEPARTMENT AS PART OF NATIONAL NUCLEAR RESEARCH CENTER ANNOUNCED. KING FAISAL FOUNDATION PLANS TO SUPPORT NEW SOLAR HEATING AND COOLING PROJECT.

N) SPAIN, LABORATORY FOR PERFORMANCE TESTING OF FLAT-PLATE COLLECTORS IN OPERATION. APPROXIMATELY TEN DIFFERENT FLAT-PLATE COMMERCIALY AVAILABLE. PRIVATELY PROMOTED SOLAR-ASSISTED HIGH-RISE OFFICE BUILDING UNDER CONSTRUCTION AND PLANS FOR CONSTRUCTION.

TION OF EXPERIMENTAL SOLAR HOUSES AND APARTMENT BUILDINGS UNDER
CONSIDERATION.

O) SWEDEN: SOLAR PROGRAM TO BE REVISED MARCH 1977 AS ONE BASIS
FOR ENERGY POLICY DECISIONS TO BE MADE IN SPRING 1978. TAP
WATER HEATING FIRST OPTION OF INTEREST SINCE SMALL QUANTITY OF
SWEDISH-DEVELOPED AND MANUFACTURED SOLAR WATER HEATERS WILL SOON
BE COMMERCIALY AVAILABLE. TWO SOLAR-HEATED DEMONSTRATION
HOUSES HAVE BEEN MONITORED: APPLICATIONS FOR MULTI-FAMILY
HOUSE FORESEEN IN TWO YEARS. INTENSIVE INTERNATIONAL COOPERATION
BEING PURSUED.

P) TURKEY: SOLAR ENERGY PROGRAM TO BE INCORPORATED IN
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5-YEAR PLAN. PROGRAM WILL BE COORDINATED BY MINISTRY OF NERGY
AND NATURAL RESOURCES AND INVOLVE SEVERAL GOVERNMENT ORGANIZA-
TIONS AND UNIVERSITIES. TWO MAJOR PROJECTS RECENTLY
INITIATED, SOLAR-HEATED HOUSE AND ESTABLISHMENT OF A SOLAR
ENERGY RESEARCH CENTER. SEVERAL COMMERCIAL FIRMS CONSTRUCT
WATER HEATERS. SCIENTIFIC RESEARCH UNDERWAY AT UNIVERSITIES
AND TURKISH SCIENTIFC RESEARCH COUNCIL.

Q) U.S.: FEDERAL PROGRAM IN SOLAR HEATING AND COOLING OF
BUILDINGS HAS FOUR MAIN ELEMENTS: RESIDENTIAL DEMONSTRATIONS;
COMMERCIAL DEMONSTRATIONS; DEVELOPMENT IN SUPPORT OF DEMON-
STRATIONS; R AND D - ALL DIRECTED AT STIMULATION OF INDUSTRY
CAPABLE OF PROVIDING SOLAR SYSTEMS ON WIDE SCALE. OVER ONE
HUNDRED RESIDENTIAL SOLAR SYSTEMS SUPPORTED IN PAST YEAR WITH
SEVERAL FIRMS THAT BUILT WITH PRIVATE FUNDS. 34 COMMERCIAL
BUILDINGS FUNDED, BRINGING TOTAL TO OVER 50. R AND D PROGRAM
NOW HAS OVER 70 PROJECTS ON COLLECTORS, STORAGE, HEAT PUMPS,
COOLING, SYSTEMS AND CONTROLS. EMPHASIS OF R AND D PROGRAM
CONTINUES TO BE COST-EFFECTIVENESS. SUPPORTING ACTIVITIES
CONTINUE ON INFORMATION DISSEMINATION, PERFORMANCE CRITERIA
AND STANDARDS, AND COMPONENT AND SYSTEM INTEGRATION AND
TESTING.

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R) EC: EUROPEAN COMMISSION CARRYING OUT TWO COMPLEMENTARY PROGRAMS. (1) DIRECT ACTION PROGRAM CARRIED OUT BY JOINT RESEARCH CENTER IN ISPRA, ITALY, DEALS WITH COLLECTOR TESTING PROCEDURES, R AND D ON HIGH PERFORMANCE COLLECTORS AND EXPERIMENTAL SYSTEMS STUDIES. (2) INDIRECT ACTION PROGRAM, IN WHICH COMMISSION PARTIALLY FUNDS NATIONAL ACTIVITIES, INVOLVING STORAGE DECICES, SYSTEM STUDY AND STANDARD TESTING PROCEDURES.

3. SPECIAL FORMAT REPORTS:

A) NINE COUNTRIES (AUSTRALIA, CANADA, DENMARK FRG, FRANCE, THE NETHERLANDS, SWEDEN, TURKEY AND U.S.) ALSO IDENTIFIED AND BRIEFLY REVIEWED NATIONAL PROJECTS OF THE PAST YEAR IN WHICH RESULTS HAVE BEEN OR WILL BE REPORTED BY MEANS OF THE SPECIAL FORMAT REPORT ADOPTED AT THE 1975 CCMS SOLAR ENERGY MEETING AT PALO ALTO, CALIFORNIA. THESE COUNTRIES ALSO IDENTIFIED FUTURE NATIONAL PROJECTS WHICH WILL BE REPORTED INTERNATIONALLY IN SPECIAL FORMAT REPORTS.

B) THE SPECIAL FORMAT WAS DEvised BY THIS CCMS PROJECT GROUP TO EFFECTIVELY PROVIDE STANDARDIZED INFORMATION ON PERFORMANCE OF SOLAR SYSTEMS OR SUB-SYSTEMS. COUNTRIES UTILIZING THIS REPORTING FORMAT NOTED IT TO BE OF GREAT VALUE AND ANUMBER OF COUNTRIES AND THE IEA HAVE ADOPTED IT IN REPORTING ON SOLAR PROJECTS.

C) TO ENHANCE THE VALUE OF THE SPECIAL FORMAT REPORTS, IT WAS AGREED THAT ON OUTLINE FOR A 1-2 PAGE SUMMARY WOULD BE PREPARED FOR INCLUSION IN FUTURE REPORTS.

4. SUB-GROUPS:

A) ZERO ENERGY HOUSE GROUP LED BY DENMARK ANNOUNCED IT WOULD MEET IN STOCKHOLM IN JUNE 1977 TO COMPARE SYSTEM PERFORMANCE.

B) DURING MEETING DELEGATES AGREED TO FORM NEW SUB-GROUP, CHAIRED BY FRANCE (RODOT-CNRS) ON SOLAR APPLICATIONS IN MEDITERRANEAN-TYPE CLIMATES, I.E., REGIONS CHARACTERIZED BY COLD, HUMIT WINTERS; DRY, HOT SUMMERS; CLEAR NIGHTS DURING SUMMERS; AND SHORT HEATING PERIOD. AREAS SUGGESTED FOR STUDY AND INFORMATION EXCHANGE INCLUDED: PASSIVE HEATING
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SYSTEMS AND TECHNICAL AND NATIONAL ASPECTS OF TRADITIONAL DWELLINGS. BESIDES BRANCE, COUNTRIES INDICATING AN INTEREST IN PARTICIPATING IN THIS NEW SUB-GROUP WERE: AUSTRALIA, FRG, GREECE, IRAN, ISRAEL, SAUDI ARABIA, SPAIN, TURKEY AND THE U.S. WHILE NOT ATTENDING MEETING, ITALY HAS ALSO INDICATED DESIRE TO TAKE PART IN NEW SUB-GROUP. FRANCE WILL TRY TO ORGANIZE INITIAL MEETING OF SUB&GROUP IN NEXT FEW MONTHS: C) IN RESPONSE TO PROPOSAL AT 1975 MEETING TO FORM TROPICAL CLIMATE SUB-GROUP IT WAS AGREED THAT FOR PRESENT JAMAICA (ASHBY) WOULD BE ASKED TO SEE IF ENOUGH INTEREST EXISTED IN THIS AREA TO WARRANT FORMATVN OF SUCH SUB-GROUP IN FUTURE.

5. MEMORANDUM OF UNDERSTANDING:

A) SINCE LAST YEAR'S MEETING, FIVE ADDITIONAL COUNTRIES

(BELGIUM, DENMARK, FRANCE, U.K. AND JAMAICA) SIGNED
MEMORANDUM OF UNDERSTANDING:, BRINGING TO 12 TOTAL NUMBER
OF SIGNATORIES. DURING MEETING SPAIN, TURKEY AND THE
NETHERLANDS NOTED NATIONAL SOLAR AGENCIES WOULD SIGN IN
NEAR FUTURE. IRAN ALSO EXPRESSED DESIRE TO PARTICIPATE
IN MOU.

B). IMPROVEMENT OF INFORMATION EXCHANGE IN ACCORDANCE WITH
SOLAR MOU ALSO DISCUSSED. IT WAS AGREED EACH COUNTRY
WOULD TAKE STEPS APPROPRIATE TO NATIONAL CIRCUMSTANCES TO
INSURE RESEARCHERS AWARE OF REPORTS EXCHANGED.

6. NEXT MEETING: THE FRG ANNOUNCED THAT AS AGREED TO
PREVIOUSLY IT WOULD HOST NEXT CCMS SOLAR ENERGY PILOT
STUDY MEETING IN SPRING 1978. AS PRESENTLY ENVISIONED,
MEETING WOULD BE FOUR DAYS, TWO OPEN TO GENERAL PUBLIC
FOR PRESENTATION BY PARTICIPATING PILOT STUDY COUNTRIES
OF SPECIAL FORMAT REPORTS ON NATIONAL SOLAR PROJECT.
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